

APPLICANT(S): GOTHAIT, Hanan et al.
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AMENDMENTS TO THE CLAIMS

Please add the claims to read as follows, and cancel without prejudice or disclaimer to resubmission in a divisional or continuation application claims indicated as cancelled. The following list of claims is intended to replace all prior versions or listings of claims in the application.

Listing of Claims:

Claims 1-67 (Cancelled).

68. (New) A method of three-dimensional printing, the method comprising:
- dispensing interface material from a printing head of a three-dimensional printer;
 - determining weight of the interface material dispensed by one or more nozzles of the printing head; and
 - evaluating the one or more nozzles or the printing head based on the weight of the interface material dispensed.
69. (New) The method of claim 68, wherein determining comprises forming a measuring block of said interface material and measuring the weight of the measuring block.
70. (New) The method of claim 69, wherein measuring comprises weighing said measuring block using one or more of a container, a load cell and a weight scale or scales.
71. (New) The method of claim 70, comprising comparing the weight of said measuring block against a reference weight value or another measuring block.

72. (New) The method of claim 68, wherein determining comprises weighing said dispensed interface material using one or more of a container, a load cell and a weight scale or scales.
73. (New) The method of claim 68, comprising modifying a drive voltage applied to at least one of the one or more nozzles to modify drop-volume or drop-weight deposited by the nozzle.
74. (New) The method of claim 68, comprising modifying one or more jetting parameters and/or properties of the printing head.
75. (New) The method of claim 74, wherein the one or more jetting parameters and/or properties of the printing head include jetting head temperature, jetting pulse voltage, nozzle voltage, print head voltage, jetting pulse shape or jetting frequency.
76. (New) The method of claim 76, wherein evaluating comprises detecting one or more malfunctioning nozzles among the one or more nozzles within the printing head.
77. (New) The method of claim 76, comprising treating said one or more malfunctioning nozzles.
78. (New) The method of claim 76 comprising:
providing notification of a need to replace said printing head, if a
number of said one or more malfunctioning nozzles is greater than a pre-
defined value.

79. (New) A three-dimensional model printing apparatus comprising:
- one or more printing heads, each printing head comprising one or more nozzles;
 - a weight measurement unit to determine weight of interface material dispensed from at least one of said one or more nozzles; and
 - a controller to modify a property of at least one of said one or more nozzles or said one or more printing heads based on the weight of the dispensed interface material.
80. (New) The apparatus of claim 79, comprising:
- a container to receive the dispensed interface material dispensed for determining the weight of said dispensed interface material.
81. (New) The apparatus of claim 79 comprising:
- a load cell and/or weight scales to measure the weight of the dispensed interface material.
82. (New) The apparatus of claim 81 comprising:
- a container to receive the dispensed interface material dispensed for determining the weight of said dispensed interface material and wherein said load cell and/or said weight scales are attached to said container.
83. (New) The apparatus of claim 79, wherein said controller is to modify a voltage or drive voltage of said any one or more nozzles or any one or more of said printing heads.
84. (New) The apparatus of claim 79, wherein said controller is to modify one or more jetting parameters and/or properties of the printing head.

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85. (New) The apparatus of claim 79, wherein said weight measurement unit transfers weight data to the controller for analysis.
86. (New) The apparatus of claim 85, wherein the controller is to calculate drop-weight data for said one or more nozzles.
87. (New) The apparatus of claim 79, wherein said controller is to send a notification of the need to replace said one or more printing heads.